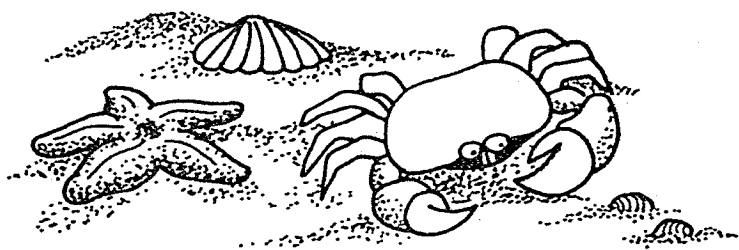
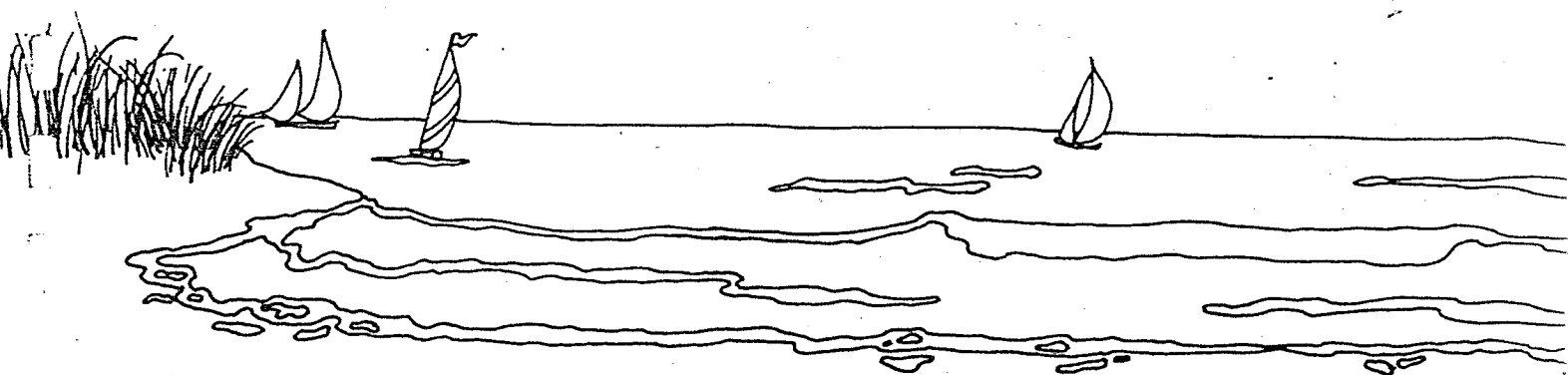


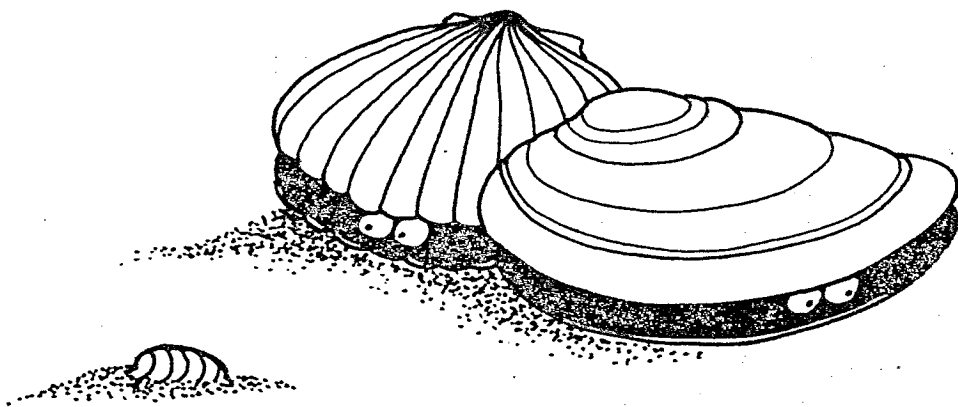
Summer Neuropeptide Conference 1995



**Program
and
Abstracts**

**Martha's Vineyard,
Massachusetts**

June 25-28, 1995



Summer Neuropeptide Conference

1995 SUMMER NEUROPEPTIDE CONFERENCE

JUNE 25 - 29, 1995

MARTHA'S VINEYARD, MASSACHUSETTS, USA

Jacqueline Crawley, Conference Co-Organizer

Stafford McLean, Conference Co-Organizer

Paul Cohen, International Coordinator

Louis Hersh, Finance Coordinator

The Summer Neuropeptide Conference is an Affiliate of The International Neuropeptide Society

1995 Summer Neuropeptide Conference

The 1995 Summer Neuropeptide Conference expresses its deep appreciation to the following contributors:

AMGEN

Bristol-Myers Squibb Company

Burroughs Wellcome Company

Cephalon, Inc.

The Council for Tobacco Research-USA, Inc.

The DuPont-Merck Pharmaceutical Company

Lilly Research Laboratories

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International Society for Neurochemistry

Marion-Merrell Dow Research Institute

Merck Research

National Institute on Drug Abuse

Pfizer Central Research

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Administrative assistance with registration was kindly provided by Ms. Carol Markey, SBN,

ETB, National Institute of Mental Health

Addendum

Contributions received after program went to press

Bachem Biosciences Inc.
Parke-Davis Pharmaceutical Research, Warner Lambert Company



Summer Neuropeptide Conference

August 21, 1995

The Council for Tobacco Research
Dr. George Hashim
Associate Research Director
900 Third Avenue
New York, NY 10022

Dear Dr. Hashim:

We again thank you for your support of the Summer Neuropeptide Conference which was held June 25-28 at Martha's Vineyard. With your continued support we can again say that the Conference was a "big success".

We have enclosed the program which acknowledges your contribution and hope you can use the enclosed beach bag for your enjoyment.

Sincerely,

Louis B. Hersh
Financial Coordinator

Jacqueline N. Crawley, Ph.D.
Conference Co-Organizer

Paul Cohen, Ph.D.
International Coordinator

Stafford McLean, Ph.D.
Conference Co-Organizer

Louis B. Hersh, Ph.D.
Financial Coordinator

CONFERENCE AND HOTEL LOCATIONS

Harborview Hotel, 131 North Water Street

Registration, Sunday, June 25th, 10 AM to 3:30 PM, Lobby outside Menemsha Room (contact conference organizers for registration at other times)

Keynote Lecture and Reception, Sunday 4 to 6:30 PM, Menemsha Room

All Symposia, Monday through Thursday, 8:30 AM, Monday and Tuesday 5:00 PM, Menemsha Room

Poster Session, Monday 6:30 to 8:30 PM, Edgartown Room

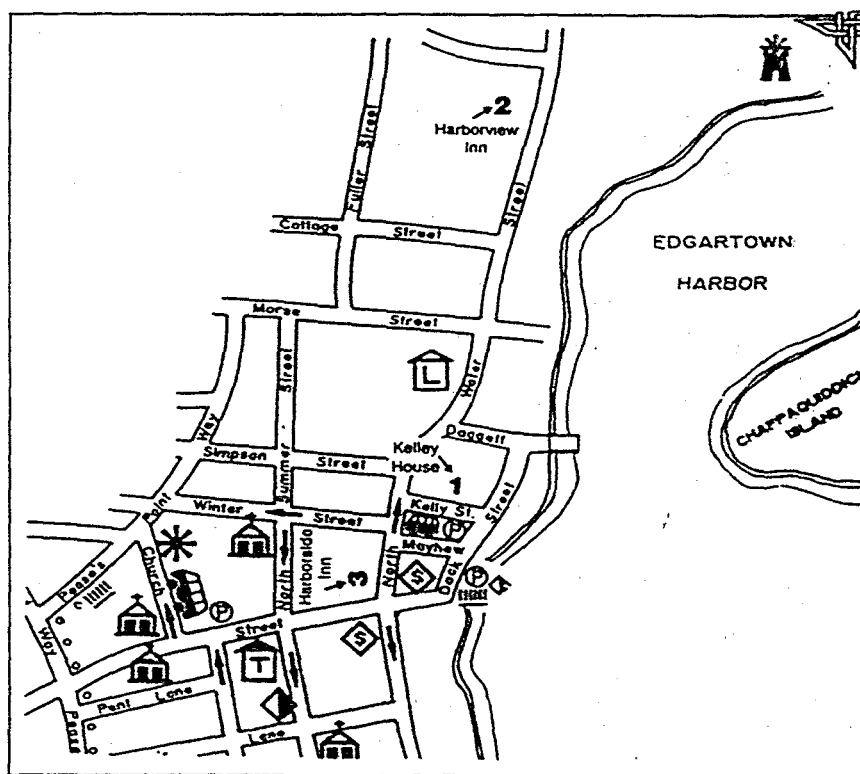
Poolside Barbeque, Tuesday, 7:00 PM, Harborview Swimming Pool, outdoors, weather permitting (rain location: Edgartown Room)

Plenary Lecture, Wednesday 6:30 PM, Menemsha Room

Conference Banquet, Wednesday 7 PM, Harborview Lawn, outdoors, weather permitting (rain location: Edgartown Room)

Kelley House, 23 Kelly Street (no conference events)

Colonial Inn, 38 North Water Street (no conference events)



PROGRAM

1995 SUMMER NEUROPEPTIDE CONFERENCE

June 25-29th, Martha's Vineyard, MA, USA

Sunday, June 25th

4:00pm WELCOME

Jacqueline Crawley and Stafford McLean, Conference Co-Organizers

4:15 KEYNOTE LECTURE

Dennis J. Selkoe

Professor of Neurology and Neuroscience, Harvard Medical School, Boston, MA

*"THE CURIOUS TALE OF AMYLOID β -PEPTIDE: HOW SECRETION OF A
TRANSMEMBRANE FRAGMENT LEADS TO ALZHEIMER'S DISEASE"*

5:15 OPENING RECEPTION

Monday, June 26th

AM SYMPOSIUM: What Transgenic Mice Can Teach Us About Neuropeptides
Chair: Joan P. Schwartz

- 8:30 Mary Stenzel-Poore, Oregon Health Sciences University, Portland, Oregon
CRF Overproduction in Transgenic Mice: Behavioral and Immune System Modulation
- 9:00 Louis Muglia, Harvard Medical School, Boston, MA
Production of Corticotropin Releasing Hormone-Deficient Mice by Targeted Mutation in Embryonic Stem Cells
- 9:30 Mary Lou Oster-Granite, University of California, Riverside, California
Recent Studies of Mice Transgenic for Preprosomatostatin
- 10:00 *Coffee Break*
- 10:30 Joan P. Schwartz, National Institute of Neurological Disorders and Stroke, Bethesda, Maryland
Analysis of Transgenic Mice Overexpressing Somatostatin in Astrocytes
- 11:00 George R. Uhl, National Institute on Drug Abuse, Baltimore, Maryland
Enkephalin and Mu Receptor Transgenic Mice
- 11:30 W. Scott Young, National Institute of Mental Health, Bethesda, Maryland
Study of Oxytocin Expression Through Transgenic Mice

PM SYMPOSIUM: Second Messengers of Neuropeptide Receptors
Chair: James E. Krause

- 5:00 James E. Krause, Washington University School of Medicine, St. Louis, Missouri
Mechanisms, Kinetics and Desensitization of NK-1 Type Tachykinin Receptor Activation of Phospholipase C and A2
- 5:30 Terry D. Reisine, University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania
Molecular Mechanisms of Opiate Receptor Coupling to G-Proteins and Effector Systems
- 6:00 Mark A. Simmons, Marshall University School of Medicine, Huntington, West Virginia
Desensitization of Neuropeptide Inhibition of an Ionic Current in Bullfrog Sympathetic Neurons

6:30-8:30pm **POSTER SESSION WITH WINE AND CHEESE**

Tuesday, June 27th

AM SYMPOSIUM: Corticotropin Releasing Factor: Basic and Clinical Advances
Chair: Ned H. Kalin

- 8:30 Dimitri Grigoriadis, Neurocrine Bioscience Inc., San Diego, California
Characterization of Corticotropin-Releasing Factor (CRF) Receptor Subtypes
- 9:00 Dominic P. Behan, Neurocrine Bioscience Inc., San Diego, California
Corticotropin Releasing Factor (CRF) and CRF-Binding Protein in Alzheimer's Disease
- 9:30 Ned H. Kalin, University of Wisconsin School of Medicine, Madison, Wisconsin
Preclinical Studies Implicating CRF in Mediating Anxiety and Depression
- 10:00 *Coffee Break*
- 10:30 David Schulz, Pfizer Central Research, Groton, Connecticut
Non-Peptide CRF Receptor Antagonists
- 11:00 Alan Schatzberg, Stanford University School of Medicine, Stanford, California
CRF and Dopamine Interactions
- 11:30 Charles Nemeroff, Emory University School of Medicine, Atlanta, Georgia
Post-Mortem and Cerebrospinal Fluid Studies of CRF in Humans

PM SYMPOSIUM: Individual Differences in Responses to Neuropeptides
Chair: Franco Vaccarino

- 5:00 Jacques Bradwejn, McGill University, Montreal, Canada
Individual Differences in Response to the Panicogenic Effects of CCK-4
- 5:30 Peter W. Kalivas, Washington State University, Pullman, Washington
Individual Response to Novelty, Neuropeptide Content and mRNA in the Nucleus Accumbens
- 6:00 Sid Kennedy, Clarke Institute of Psychiatry, Toronto, Canada
Personality Factors and Comorbidity as Individual Differences in Psychiatric Research
- 6:30 Franco Vaccarino, University of Toronto, Toronto, Canada
Individual Differences in Dopamine-Sensitive Behaviors: Role of CCK

Wednesday, June 28th

AM **SYMPOSIUM: Neuropeptidases: From Gene Regulation to Gene Processing**
Chair: Louis B. Hersh

- 8:30 Paul Cohen, University Pierre et Marie Curie, Paris, France
Structure, Functional Properties, Tissular and Sub-Cellular Localization of Two Novel Metallopeptidases Exhibiting a Specificity for Basic Residues
- 9:00 Vivian Hook, University of California, San Diego, California
Proteases and Protease Inhibitors in Neuropeptide Precursor Processing Within Neurosecretory Vesicles of the Adrenal Medulla
- 9:30 Thomas P. Davis, University of Arizona, Tucson, Arizona
Modulation of Prohormone Convertase mRNA by Second Messenger Activators and Drugs
- 10:00 *Coffee Break*
- 10:30 Louis B. Hersh, University of Kentucky, Lexington, Kentucky
Tissue Specific Expression of Rat Neutral Endopeptidase mRNAs
- 11:00 Norma Gerard, Harvard Medical School, Boston, Massachusetts
Genetic Disruption of Neutral Endopeptidase (Enkephalinase) and Tachykinin Receptors
- 6:30pm FIFTH ANNIVERSARY PLENARY LECTURE
Abba J. Kastin
VA Medical Center/Tulane University School of Medicine, New Orleans, Louisiana
Editor-in-Chief, PEPTIDES
President, The International Neuropeptide Society
"THE HISTORY OF NEUROPEPTIDE RESEARCH: VERSION 5a"
- 7:00pm CONFERENCE BANQUET
Announcement of Graduate Student and Postdoctoral Fellow Awards

Thursday, June 29th

AM

SYMPOSIUM: Neuropeptide-Serotonin Interactions

Chair: Ray Fuller

- 8:30 Ray Fuller, Lilly Research Laboratories, Indianapolis, Indiana
Mechanisms and Functions of Serotonin Neuronal Systems: Opportunities for Neuropeptide Interactions
- 9:00 Irving Kupfermann, New York State Psychiatric Institute, New York, New York
Serotonin and Peptide Interactions in Mediating Food-Induced Arousal in the Mollusc
- 9:30 Cinda Helke, Uniformed Services University of the Health Sciences, Bethesda, Maryland
Interactions and Coexistence of Neuropeptides and Serotonin in Spinal Autonomic Systems
- 10:00 *Coffee Break*
- 10:30 Peter Hedlund, Karolinska Institute, Stockholm, Sweden
Galanin and 5-HT-1A Receptor Interactions as an Integrative Mechanism in 5-HT Transmission in the Brain
- 11:00 Steven J. Cooper, University of Durham, Durham, England
Cholecystokinin Modulation of Serotonergic Control of Feeding Behavior
- 11:30 Geoffrey Woodruff, Parke-Davis Neuroscience Research Centre, Cambridge, England
Bombesin Receptors in Relation to Brain Serotonin Systems
- 12:00 **Round-Up and Final Discussion**

The Summer Neuropeptide Conference is an Affiliate of
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GRADUATE STUDENT AND POSTDOCTORAL FELLOW AWARDS

Mr. Omar M. El-Agnaf*
School of Biology and Biochemistry
Medical Biology Center
Belfast, BT9 7 BL, N. Ireland, UNITED KINGDOM

Mr. Chris Haskell
University of California, Davis, Dept. Biological Chemistry
School of Medicine
Davis, CA 95616-8635

Mr. Kurt A. Heldwein
Oregon Health Sci Univer Dept Mol, Micro, Immun
Mail Code L220, 3181 SW Sam Jackson Park Rd
Portland, OR 97201-3098

Dr. Kalev Kask*
Dept. of Neurochemistry and Neurotoxicology
Stockholm University
S-10691 Stockholm, SWEDEN

Dr. Andre Rex*
Institute of Pharmacology and Toxicology
Humboldt University at Berlin
D-10098 Berlin, GERMANY

Dr. James C. Ritchie
Duke University-Pharmacology
P.O. Box 3856, DUMC
Durham, NC 27710

Mr. John Wagstaff
Univer. of Utah, Dept. of Pharm. & Toxicology
112 Skaggs Hall
Salt Lake City, UT 84112

Mr. Keith A. Williams
New York University, Dept. of Biology
100 Washington Square East Room 1009 Main Bldg.
New York, NY 10003

**Recipient of International Society for Neurochemistry Young Scientist Conference Fellowships Award*